Journal of the Indian Chemical Society

Vol. 77, 2000

Subject Index

Acetals

Linear free energy relationship and conformational effects on oxidation of aromatic acetals by pyridinium fluorochromate, 232

Acetonitrile

Densities and viscosities of binary mixtures of acetonitrile with alkanols (C_5, C_6, C_7, C_8, C_{10}) at 298.15, 303.15 and 308.15 K, 244

Acetoxyborohydride

PCC oxidation of organoboranes obtained using acetoxyborohydride, 453

Activation barrier

Semiempirical AM1 investigation of geometric and electronic effects in Myers' cyclization reaction, 402

Activation energy

On the error involved in the determination of activation energy of solid state reactions by using Coates-Redfern method, 341

Adsorption

Adsorption dynamics – temperature effect on adsorption of lead(II) species onto lignite surface, 11

Studies on the adsorption of gelatin on a synthetic hydroxyapatite, 14

Kinetics of the adsorption of glucose at the alumina-solution interface, 238

Aggregation

Surfactant mediated nanoparticle aggregation and its application for SERS studies, 34

Alanine

Equilibrium studies of ternary chelates of some divalent metal ions with cephalosporins and α-alanine, 217

Alaninebisbiguanide cobalt

Ion association of α-alanine bis-biguanidecobalt(III) iodide in methanol + water mixtures at different temperatures, 146

Aldehydes

Kinetics and mechanism of oxidation of aldehydes by *t*-butyl hypochlorite in aqueous acetic acid medium, 194

Aldol

Biomimetic synthesis of monoterpenoid indole alkaloids from aglucones of secologanin derivatives : pH controlled product selectivity, 609

Aldoses

Reactivities of some aldoses and aldosamines towards potassium bromate in hydrochloric acid medium, 152

Aliquat

Extraction chromatographic studies of uranium(VI) with high molecular mass amine (aliquat-336), 499

Alkaloids

Biomimetic synthesis of monoterpenoid indole alkaloids from aglucones of secologanin derivatives : pH controlled product selectivity, 609

Alkanols

Densities and viscosities of binary mixtures of acetonitrile with alkanols (C_5, C_6, C_7, C_8, C_{10}) at 298.15, 303.15 and 308.15 K, 244

Alkylamide

Self-assembly of hydrogen-bonding networks of *N*-9-alkyladenine, 609

Alkylation

Alkylation of aniline over base zeolites, 490

Alumina

Kinetics of the adsorption of glucose at the alumina-solution interface, 238

Reaction of 2-propanol over alumina in the presence of methyl acetate. Evidence for the nature of adsorption, 355

Aluminium sulfate

Limiting apparent molar volumes and their temperature derivatives for ammonium sulfate, potassium sulfate and aluminium sulfate in aqueous dimethylformamide, 197

AM1 methodology

Semiempirical AM1 investigation of geometric and electronic effects in Myers' cyclization reaction, 402

Amides

Viscosity of electrolytes in non-aqueous solvents, 201

Amino acids

Amperometric biosensor for dust estimation : Comparison of enzyme electrode and dual-step potential electrode, 70

Polarographic sudy of [Mn-L-aminoacidate-γ-picoline] mixed system vis-a-vis kinetics of electrode reaction, 88

Solvent effect on protonation equilibria of L-ornithine and L-glutamic acid, 380

Role of chloride in the oxidative decarboxylation of amino acids by chloramine-T, 413

Aminobenzoic acids

Peroxy acid oxidation : A kinetic and mechanistic study of oxidation of aminobenzoic acids by peroxomonosulfuric acid, 315

Aminopyrimidine

Electrochemical reduction behaviour of *N*-(benzylidene)-2-aminopyrimidine, 410

Aminosugars

Reactivities of some aldoses and aldosamines towards potassium bromate in hydrochloric acid medium, 152

Ammonium perchlorate

A comparative study of the effect of precompression on the thermal stability of potassium bromate to ammonium perchlorate and potassium permanganate, 261

Ammonium sulfate

Limiting apparent molar volumes and their temperature derivatives for ammonium sulfate, potassium sulfate and aluminium sulfate in aqueous dimethylformamide, 197

Ampicillin

Ternary complexes of nickel(II) involving ampicillin and some potentially bi- and tridentate ligands, 394

Aniline

Alkylation of aniline over base zeolites, 490

Anthracene

Solid state conductance in fused ring aromatic compounds, 349

Arylaminodesoxypodophyllotoxin

Hansch analysis of antitumor 4β-(arylamino)-4-desoxypodophyllotoxins and their 4′-demethyl analogs, 428

Aspartate

Multimetal multiligand complexes. Part-II. Equilibrium study on the formation and stability of mixed-metal, mixed-ligand complexes of cobalt-, nickel-, copper- and zinc(II) with aspartate and benzimidazole in aqueous solution, 209

Azanine dye

Use of azine dye as photosensitizer in solar cell. NTA-safranine system, 347

Azetidinones

Synthesis and antimicrobial activities of some new pyrazolothiadiazoles and their azetidinones, 400

Azo anion radicals

Metal bound azo anion radicals, 547

Azo dye

Investigation of neodymium complex with acid chrome blue K by beta-correction spectrophotometry, 192

Investigation of copper complex solution with new ligand *o*-chlorobenzenediazoaminobenzene-*p*-azobenzene and determination of trace copper in wastewater, 249

Azophenolcarboxylate

Chemistry of alkoxo-bonded oxovanadium(V) complexes incorporating azophenolcarboxylates and ethylene glycol, 59

Azropyridine

Metal bound azo anion radicals, 547

Barium

Liquid-liquid extraction and separation of barium from associated elements using dibenzo-24-crown-8, 455

Benzimidazoles

Multimetal multiligand complexes. Part-II. Equilibrium study on the formation and stability of mixed-metal, mixed-ligand complexes of cobalt-, nickel-, copper- and zinc(II) with aspartate and benzimidazole in aqueous solution, 209

Synthesis of some isoindole-1,3-dione and amino-oxyalkyl derivatives of benzimidazole, 300

Benzodiazepines

Topological studies on benzodiazepine receptor binding, 133

Benzoic acid

Studies on chloranil + benzoic acid complexes and chloranil + salicylic acid complexes in mixed solvents, 447

Biology
Metal ions in environment and Biology, 501

Biomimetic synthesis
Biomimetic synthesis of monoterpenoid indole alkaloids from aglucones of secologanin derivatives : pH controlled product selectivity, 609

Biosensor
Amperometric biosensor for dust estimation : Comparison of enzyme electrode and dual-step potential electrode, 70

Bipyridine
Chemistry of some ruthenium phenolates. Synthesis, characterization and redox properties, 267

Bishydroxyacetophenonediaminopropane
Synthesis, structural and electrical studies of cobalt-, nickel-, copper- and zinc(II) polymeric complexes, 363

Boric acid
Borate complexes in solution. Part-I. Equilibrium study on the mixed ligand complex formation of copper(II) with boric acid and (N,N) bidentate ligands, 62

Bridging ligand
Role of bridging ligand in tuning metal-metal interaction in mixed valence complexes, 51

Brine
Relative viscosity and surface tension of subsoil brines : A case study of Chandan subsoil brine, 297

Butyl hypochlorite
Kinetics and mechanism of oxidation of aldehydes by *t*-butyl hypochlorite in aqueous acetic acid medium, 194

Calixarenes
Effect of addition of calix[n]arenes on photooxygenation of 4,5-diphenylimidazolones, 98

Carbaryl
Studies on adsorption of carbaryl as influenced by soil organic matter (SOM) and other soil characteristics, 17

Carbazoles
Laser versus UV photolysis : A comparative study with carbazole, 97

Carbides
Structure and bonding in ternary and quaternary transition metal carbides and carbide silicides containing linear M=C=M units, 603

Carbohydrates
Kinetics and mechanism of electron transfer reactions of aquo-thallium(III) perchlorate with aldopentoses, 235

Carboxyphenylmalonamide
Synthesis of iron(III), cobalt(II), nickel(II), copper(II) and zinc(II) complexes with new quadridentate N,O^- donor ligands, 336

Carboxyphenyloxamide
Synthesis of iron(III), cobalt(II), nickel(II), copper(II) and zinc(II) complexes with new quadridentate N,O^- donor ligands, 336

Catalysis
Synthesis, characterisation and catalytic activity of $[Cu\text{-}(NH_3)_4]^{2+}$ bound to zirconium arsenophosphate, 5

Catalyst
Hydrocracking catalyst selection in Indian context, 74
Feedstock composition and process parameter selection for Indian hydrocrackers, 78
Reaction of 2-propanol over alumina in the presence of methyl acetate. Evidence for the nature of adsorption, 355

Cephalexin
Chemical equilibrium studies on some bivalent metal chelates of cephalexin, 85

Cephalosporins
Equilibrium studies of ternary chelates of some divalent metal ions with cephalosporins and α-alanine, 217

Cesium
Fixation of cesium on titania based ceramic precursor, 407

Cetylpyridinium chloride
Effect of solvents and temperature on the critical micellar concentration of sodium dodecyl sulfate and cetylpyridinium chloride, 478

Chalcogenides
Molecules to materials : Platinum group metals organochalcogenolates to metal chalcogenides, 523

Chemical education
Environmental chemistry education for the 21st century, 531

Chloranil
Studies on chloranil + benzoic acid complexes and

chloranil + salicylic acid complexes in mixed solvents, 447

Chlorine

Evaluation of effective parameters on chemical reactions in the electrocells of Neka power station hypochlorite plant, 285

Chloroacetone

Kinetics of reaction of chloroacetone with thioureas, 213

Chromatography

TLC of some cations and their separation by naturally occurring mixed oxides impregnated plates, 106

Increased selectivity for planar chromatography by ion exchange : Cation chromatography on papers impregnated with titanium(IV) based inorganic ion exchangers in DMSO-HNO_3 mobile phases, 204

Complexation ion exchange electrochromatography of metal ions on papers impregnated with titanium(IV) tungstate, 307

Chromenone

Spectrophotometric determination of vanadium(V) as its 6-chloro-3-hydroxy-2-[2′-(5′-methylfuryl)]-4*H*-chromen-4-one complex, 264

Chromium

Reactions of sulfur(IV) with complex ions of chromium-, manganese-, iron- and cobalt(III) in aqueous medium, 583

Cobalt

Coordination of cobalt(II), nickel(II) and copper(II) with Schiff base derived from 2-thiophene-carboxaldehyde and 2-monopropanolamine, 83

Complexation of nickel-, cobalt- and copper(II) with L-3,4-dihydroxyphenylalanine – Kinetic studies, 228

Thermal, magnetic, ESR and antibacterial study of some Schiff base metal complexes, 256

Synthesis and characterization of metal complexes of manganese-, cobalt- and zinc(II) with Schiff base and some neutral ligand, 339

Non-isothermal degradation and kinetic parameters of some Schiff base complexes, 367

Reactions of sulfur(IV) with complex ions of chromium-, manganese-, iron- and cobalt(III) in aqueous medium, 583

Some aspects of the coordination chemistry of cobalt(III), 657

Conductance

Equivalent conductance, viscosity and apparent molar volume studies of alkali metal propionates in propionic acid + ethanol mixture at 30°, 8

Solid state conductance in fused ring aromatic compounds, 349

Copper

Synthesis, characterisation and catalytic activity of $[Cu(NH_3)_4]^{2+}$ bound to zirconium arsenophosphate, 5

Borate complexes in solution. Part-I. Equilibrium study on the mixed ligand complex formation of copper(II) with boric acid and (N,N) bidentate ligands, 62

Spectral studies of complexation reaction between copper(II) and 2,3,4-trihydroxyphenylethylidine benzoicacidhydrazide, 81

Coordination of cobalt(II), nickel(II) and copper(II) with Schiff base derived from 2-thiophenecarboxaldehyde and 2-monopropanolamine, 83

Studies on the solution equilibria involved in some copper(II) and zinc(II) Schiff base complex systems, 220

Complexation of nickel-, cobalt- and copper(II) with L-3,4-dihydroxyphenylalanine – Kinetic studies, 228

Investigation of copper complex solution with new ligand *o*-chlorobenzenediazoaminobenzene-*p*-azobenzene and determination of trace copper in wastewater, 249

Synthesis and biological activity of copper(II) mixed ligand complexes with thiophene-2-aldehyde thiosemicarbazone as the primary ligand, 252

Thermal, magnetic, ESR and antibacterial study of some Schiff base metal complexes, 256

Simultaneous determination of copper and zinc by anodic stripping voltammetry in *Allamanda cathartica* L., 360

Non-isothermal degradation and kinetic parameters of some Schiff base complexes, 367

Stability of the ternary copper(II) complexes involving tertiary diimines and a vitamin B_6 derivative, 397

pH-metric and electronic spectral measurements on the mixed ligand complexes of copper(II) containing unsubstituted imidazole and some dipeptides, 442

Corrosion inhibition

Effect of some inhibitors on the corrosion of mild steel in supply water, 166

Corrosion inhibition of mild steel by some pyrazole derivatives in aqueous HCl solutions, 473

Coumarins

Mannich reaction of 3-hydroxycoumarin and 5,7-dihydroxy-4-methylcoumarin with secondary amines and 1-arylpiperazines, 100

Critical micellar concentration

Effect of solvents and temperature on the critical micellar concentration of sodium dodecyl sulfate and cetylpyridinium chloride, 478

Crown ether

Liquid-liquid extraction and separation of barium from associated elements using dibenzo-24-crown-8, 455

Cyanoethylation

Curing exotherm and processing temperature of a family of epoxy resins in the light of fabrication of composites, 332

Cyanotrifluoromethylpyridinethione

Transition metal complexes of heterocyclic ligands. Part-IV. Complexes of 6-aryl-3-cyano-4-trifluoromethylpyridine-2(1*H*)-thione with palladium- and platinum(II), 438

Cycloacylation

Advances in the chemistry of Friedel-Crafts acylation, 175

Dehydroascorbic acid

Some heterocycles from dehydro-L-ascorbic acid and dehydro-D-isoascorbic acid, 168

Demethoxylation

Tri-*n*-butylstannyl chloride-sodium cyanoborohydride mediated regioselective reductive demethoxylation of alkyl methyl ketals, 621

Density

Densities and viscosities of binary mixtures of acetonitrile with alkanols (C_5, C_6, C_7, C_8, C_{10}) at 298.15, 303.15 and 308.15 K, 244

Densities, excess molar volumes, viscosities of binary mixtures of ethanediol with water at various temperatures, 319

Dibenzofurylthiourea

Transition metal complexes of heterocyclic ligands. Part-II. Complex compounds of ions with d^6, d^7, d^8 and d^{10} electronic configuration with 3-*N*-dibenzofurylthiourea, 488

Dihydroisocoumarin

Diastereotopy in some 3,4-dihydroisocoumarins and related compounds, 39

Dihydroxynaphthalene

Naphthalene-1,8-diolato complexes of ruthenium and osmium. Synthesis and electron-transfer properties, 1

Dihydroxyphenylalanine

Multiple equilibria involved in some nickel(II) mixed ligand complex systems containing catecholic and dipeptide ligands, 26

Diimines

Stability of the ternary copper(II) complexes involving tertiary diimines and a vitamin B_6 derivative, 397

Diketones

Facile cleavage of vicinal tertiary diols by pyridinium dichromate, 651

Dimethylbutyraldehyde

A novel preparation of 3,3-dimethylbutyraldehyde via isomerization of 3,3-dimethyl-1-butene epoxide, 635

Diols

Trapping the tetrahedral intermediate in the 1,3-shift of an acetyl group using a triisopropylsilyl group, 593

Facile cleavage of vicinal tertiary diols by pyridinium dichromate, 651

Dipeptides

Multiple equilibria involved in some nickel(II) mixed ligand complex systems containing catecholic and dipeptide ligands, 26

pH-metric and electronic spectral measurements on the mixed ligand complexes of copper(II) containing unsubstituted imidazole and some dipeptides, 442

Diphenylimidazolones

Effect of addition of calix[n]arenes on photooxygenation of 4,5-diphenylimidazolones, 98

Diphenylphenol

A study of solvent dependence and proton transfer kinetics of 2,6-diphenylphenol, 376

Dipolar cycloaddition

Studies on 1,3-dipolar cycloadditions, 637

Diterpenes

Total synthesis of sesquiterpenes and diterpenes involving aryl participated cyclisations, 553

DNA-binding

Kinetics and mechanism of binding of Δ and Λ coordination compounds with double helical DNA, 539

Drugs
Emerging trends in synthesis of drugs and fine chemicals, 459

Dugong organs
Elemental analysis of dugong organs, 563

Electrocell
Evaluation of effective parameters on chemical reactions in the electrocells of Neka power station hypochlorite plant, 285

Electrochemical reduction
Electrochemical reduction behaviour of *N*-(benzylidene)-2-aminopyrimidine, 410

Electrochemical synthesis
Direct electrochemical synthesis of organotin and lead compounds with pyridine-2-thione ligand, 254

Electrochemistry
Electrochemical investigations on some hydrazones, 91
Electrochemical studies on some 4-(4′-sulphonamoyl)-hydrazono-3-methyl-2-isoxazolin-5-ones, 94

Electrochromatography
Complexation ion exchange electrochromatography of metal ions on papers impregnated with titanium(IV) tungstate, 307

Electrodeposition
A comparative study on electrodeposition of Fe-W-B and Fe-Mo-B alloys, 311

Electron transfer
Role of bridging ligand in tuning metal-metal interaction in mixed valence complexes, 51

Enantioselectivity
Kinetics and mechanism of binding of Δ and Λ coordination compounds with double helical DNA, 539

Enones
PCC oxidation of organoboranes obtained using acetoxyborohydride, 453

Environment
Metal ions in environment and biology, 501

Environmental chemistry
Environmental chemistry education for the 21st century, 531

Enzyme
Amperometric biosensor for dust estimation : Comparison of enzyme electrode and dual-step potential electrode, 70

Epipodophyllotoxin
Hansch analysis of antitumor 4β-(arylamino)-4-desoxypodophyllotoxins and their 4′-demethyl analogs, 428

Epoxidation
A novel preparation of 3,3-dimethylbutyraldehyde via isomerization of 3,3-dimethyl-1-butene epoxide, 635

Epoxy resins
Curing exotherm and processing temperature of a family of epoxy resins in the light of fabrication of composites, 332
Flame retardant behaviour of nitrogen and phosphorus based polymers and effect of nitrogen and antimony on their flame retardancy, 482

Erbium
Simultaneous determination of praseodymium, neodymium, holmium and erbium in rare earth mixtures with ofloxacin, 424

Errata
50, 314

Ethanediol
Chemistry of alkoxo-bonded oxovanadium(V) complexes incorporating azophenolcarboxylates and ethylene glycol, 59
Kinetics and mechanism of chromium(III)-catalysed oxidation of ethane-1,2-diol and propane-1,2-diol by cerium(IV) in aqueous sulfuric acid media, 223
Densities, excess molar volumes, viscosities of binary mixtures of ethanediol with water at various temperatures, 319

Excess molar volumes
Densities, excess molar volumes, viscosities of binary mixtures of ethanediol with water at various temperatures, 319

Extraction
Liquid-liquid extraction and separation of barium from associated elements using dibenzo-24-crown-8, 455

Fine chemicals
Emerging trends in synthesis of drugs and fine chemicals, 459

Flame retardant
Flame retardant behaviour of nitrogen and phosphorus based polymers and effect of nitrogen and antimony on their flame retardancy, 482

Fluorinated indoles

Fluorinated indole derivatives : Synthetic and biomedicinal aspects, 627

Fly ash

Effect of some organic compounds on the mobility of some trace metals through soil amended with fly ash, 326

Formic acid

Kinetics and mechanism of the oxidation of oxalic and formic acids by hexamethylenetetramine-bromine, 294

Friedel-Crafts acylation

Advances in the chemistry of Friedel-Crafts acylation, 175

Gallic acid

Studies on the effect of halide ions as perturbing agents on a B-Z oscillating system with gallic acid as substrate, 137

Galloacetophenonebenzoylhydrazone

Spectral studies of complexation reaction between copper(II) and 2,3,4-trihydroxyphenylethylidine benzoicacidhydrazide, 81

Gelatin

Studies on the adsorption of gelatin on a synthetic hydroxyapatite, 14

Ginkgo biloba

Research in *Ginkgo biloba* : Recent developments, 517

Glucose

Kinetics of the adsorption of glucose at the alumina-solution interface, 238

Halides

Studies on the effect of halide ions as perturbing agents on a B-Z oscillating system with gallic acid as substrate, 137

Hardener

Curing exotherm and processing temperature of a family of epoxy resins in the light of fabrication of composites, 332

Heterocyclic thione

Transition metal complexes of heterocyclic ligands. Part-IV. Complexes of 6-aryl-3-cyano-4-trifluoromethylpyridine-2(1*H*)-thione with palladium- and platinum(II), 438

Hollandite

Fixation of cesium on titania based ceramic precursor, 407

Holmium

Simultaneous determination of praseodymium, neodymium, holmium and erbium in rare earth mixtures with ofloxacin, 424

Homosesquiterpene

Pheromone synthesis. Part-209 : Synthesis of candidate structures for homosesquiterpene alcohols found as a putative sex pheromone from the sandfly *Lutzomyia lichyi*, 617

Hydrazones

Spectral studies of complexation reaction between copper(II) and 2,3,4-trihydroxy phenylethylidine benzoic acidhydrazide, 81

Electrochemical investigations on some hydrazones, 91

Electrochemical studies on some 4-(4′-sulphonamoyl)hydrazono-3-methyl-2-isoxazolin-5-ones, 94

Hydroboration

PCC oxidation of organoboranes obtained using acetoxyborohydride, 453

Hydrocracking

Hydrocracking catalyst selection in Indian content, 74

Feedstock composition and process parameter selection for Indian hydrocrackers, 78

Hydrogen bonding

Self-assembly of hydrogen-bonding networks of *N*-9-alkyladenine, 599

Hydroxocoumarins

Mannich reaction of 3-hydroxy coumarin and 5,7-dihydroxy-4-methylcoumarin with secondary amines and 1-arylpiperazines, 100

Hydroxyacetophenones

Synthesis of new hydroxyacetophenones by using iodine and iodic acid, 299

Hydroxyapatite

Studies on the adsorption of gelatin on a synthetic hydroxyapatite, 14

Hydroxyazobenzene

Dioxouranium complexes of 2,2′-dihydroxyazobenzene : Binding of mono- and bidentate Lewis bases, 270

Hydroxyphenylalanine

Complexation of nickel-, cobalt- and copper(II) with L-3,4-dihydroxyphenylalanine – Kinetic studies, 228

Hypochlorite

Evaluation of effective parameters on chemical reactions

in the electrocells of Neka power station hypochlorite plant, 285

Imidazoles

Ligational behaviour of pyridine-2,3-dicarboxylic acid with nickel(II) in presence of imidazoles, 23

pH-metric and electronic spectral measurements on the mixed ligand complexes of copper(II) containing unsubstituted imidazole and some dipeptides, 442

Indoles

Biomimetic synthesis of monoterpenoid indole alkaloids from aglucones of secologanin derivatives : pH controlled product selectivity, 609

Fluorinated indole derivatives : Synthetic and biomedicinal aspects, 627

Indolediones

Synthesis of some isoindole-1,3-dione and aminooxyalkyl derivatives of benzimidazole, 300

Inorganic chemistry

Inorganic chemistry : Research and Teaching : Retrospect and Prospect, 567

Ion association

Ion association of α-alanine bis-biguanidecobalt(III) iodide in methanol + water mixtures at different temperatures, 146

Ion exchange

Ion-exchange studies of resin copolymers derived from aromatic hydroxy compounds, 66

Increased selectivity for planar chromatography by ion exchange : Cation chromatography on papers impregnated with titanium(IV) based inorganic ion exchangers in DMSO-HNO_3 mobile phases, 204

Ion selective electrode

A novel coated wire magnesium(II) ion-selective electrode : Determination of magnesium in dolomite sample, 358

IR spectra

Infrared and Raman spectra of *N*-(substitutedphenyl)-2,2,2-trichloroacetamides, 279

Iron

Sensitive extractive spectrophotometric determination of iron(III) with pyridoxal-4-phenyl-3-thiosemicarbazone, 405

Reactions of sulfur(IV) with complex ions of chromium-, manganese-, iron- and cobalt(III) in aqueous medium, 583

Iron-molybdenum alloys

A comparative study on electrodeposition of Fe-W-B and Fe-Mo-B alloys, 311

Iron-tungsten alloys

A comparative study on electrodeposition of Fe-W-B and Fe-Mo-B alloys, 311

Ketals

Tri-*n*-butylstannyl chloride-sodium cyanoborohydride mediated regioselective reductive demethoxylation of alkyl methyl ketals, 621

Kinetics

Polarographic study of [Mn-L-aminoacidate-γ-picoline] mixed system vis-a-vis kinetics of electrode reaction, 88

Reactivities of some aldoses and aldosamines towards potassium bromate in hydrochloric acid medium, 152

Kinetics and mechanism of oxidation of aldehydes by *t*-butyl hypochlorite in aqueous acetic acid medium, 194

Kinetics of reaction of chloroacetone with thioureas, 213

Kinetics and mechanism of chromium(III)-catalysed oxidation of ethane-1,2-diol and propane-1,2-diol by cerium(IV) in aqueous sulfuric acid media, 223

Complexation of nickel-, cobalt- and copper(II) with L-3,4-dihydroxyphenylalanine – Kinetic studies, 228

Linear free energy relationship and conformational effects on oxidation of aromatic acetals by pyridinium fluorochromate, 232

Kinetics and mechanism of electron transfer reactions of aquo-thallium(III) perchlorate with aldopentoses, 235

Kinetics of the adsorption of glucose at the alumina-solution interface, 238

Dissociation kinetics of acyclic and macrocyclic polyaminopolycarboxylate complexes of yttrium, 273

Kinetics and mechanism of oxidation of methionine by pyridinium hydrobromide perbromide, 291

Kinetics and mechanism of the oxidation of oxalic and formic acids by hexamethylenetetramine-bromine, 294

Peroxy acid oxidation : A kinetic and mechanistic study of oxidation of aminobenzoic acids by peroxomonosulfuric acid, 315

Kinetics of formation of 4-thiazolidinones by cyclocondensation reaction of Schiff bases and thioglycolic acid, 352

Role of chloride in the oxidative decarboxylation of amino acids by chloramine-T, 413

Kinetics and mechanism of binding of Δ and Λ coordination compounds with double helical DNA, 539

Reactions of sulfur(IV) with complex ions of chromium-, manganese-, iron- and cobalt(III) in aqueous medium, 583

Lanthanides

Synthesis of some lanthanide complexes with phenylalanine, 259

Lead

Adsorption dynamics – temperature effect on adsorption of lead(II) species onto lignite surface, 11

Direct electrochemical synthesis of organotin and lead compounds with pyridine-2-thione ligand, 254

Letters to the Editor

172, 173

Limonine

Optically active terpolymer : Synthesis and characterization, 48

Liquid crystal

Study of binary systems inducing mesophase and determination of latent transition temperature, 322

Liver tissue

Evaluation of thermal decomposition of liver tissues from both control and chromium-inoculated chick embryos by thermogravimetric analysis, 20

Lutzomyia lichyi

Pheromone synthesis. Part-209 : Synthesis of candidate structures for homosesquiterpene alcohols found as a putative sex pheromone from the sandfly *Lutzomyia lichyi*, 617

Magnesium

A novel coated wire magnesium(II) ion-selective electrode : Determination of magnesium in dolomite sample, 358

Manganese

Polarographic study of [Mn-L-aminoacidate-γ-picoline] mixed system vis-a-vis kinetics of electrode reaction, 88

Synthesis and characterization of metal complexes of manganese-, cobalt- and zinc(II) with Schiff base and some neutral ligand, 339

Reactions of sulfur(IV) with complex ions of chromium-, manganese-, iron- and cobalt(III) in aqueous medium, 583

Mercaptotriazoles

Synthesis and biological evaluation of 3-substituted-4-[2′-(4″-isobutylphenyl)propionamido]-5-mercapto-1,2,4-triazoles and their derivatives, 302

Metal-metal interaction

Role of bridging ligand in tuning metal-metal interaction in mixed valence complexes, 51

Metal ion

Metal ions in environment and biology, 501

Methionine

Kinetics and mechanism of oxidation of methionine by pyridinium hydrobromide perbromide, 291

Methylhimachalene

Pheromone synthesis. Part-209 : Synthesis of candidate structures for homosesquiterpene alcohols found as a putative sex pheromone from the sandfly *Lutzomyia lichyi*, 617

Microwave-assisted reactions

Microwave assisted synthesis of 2,3-disubstituted-4-thiazolidinones and their pharmacological screening, 46

Mobility

Effect of some organic compounds on the mobility of some trace metals through soil amended with fly ash, 326

Molar volume

Equivalent conductance, viscosity and apparent molar volume studies of alkali metal propionates in propionic acid + ethanol mixture at 30°, 8

Limiting apparent molar volumes and their temperature derivatives for ammonium sulfate, potassium sulfate and aluminium sulfate in aqueous dimethylformamide, 197

Molecular complex

Studies on chloranil + benzoic acid complexes and chloranil + salicylic acid complexes in mixed solvents, 447

Myers' cyclization

Semiempirical AM1 investigation of geometric and electronic effects in Myers' cyclization reaction, 402

Naphthalene

Solid state conductance in fused ring aromatic compounds, 349

Neodymium

Investigation of neodymium complex with acid chrome blue K by beta-correction spectrophotometry, 192

Simultaneous determination of praseodymium, neodymium, holmium and erbium in rare earth mixtures with ofloxacin, 424

Nickel

Ligational behaviour of pyridine-2,3-dicarboxylic acid with nickel(II) in presence of imidazoles, 23

Multiple equilibria involved in some nickel(II) mixed ligand complex systems containing catecholic and dipeptide ligands, 26

Coordination of cobalt(II), nickel(II) and copper(II) with Schiff base derived from 2-thiophene-carboxaldehyde and 2-monopropanolamine, 83

Complexation of nickel-, cobalt- and copper(II) with L-3,4-dihydroxyphenylalanine – Kinetic studies, 228

Thermal, magnetic, ESR and antibacterial study of some Schiff base metal complexes, 256

Non-isothermal degradation and kinetic parameters of some Schiff base complexes, 367

Solution behaviour of mixed ligand complexes of nickel(II) involving penicillin group drugs and sulfur containing ligands under physiological conditions, 373

Ternary complexes of nickel(II) involving ampicillin and some potentially bi- and tridentate ligands, 394

Nitrobenzaldehydethiosemicarbazone

Synthetic and structural studies of the transition metal complexes of manganese-, cobalt- and zinc(II) with *m*-nitrobenzaldehydethiosemicarbazone and some neutral ligands, 289

NMR spectra

Diastereotopy in some 3,4-dihydroisocoumarins and related compounds, 39

Nucleation

Nucleation studies in supersaturated aqueous solutions of thiourea doped with urea and urea nitrate, 344

Ofloxacin

Simultaneous determination of praseodymium, neodymium, holmium and erbium in rare earth mixtures with ofloxacin, 424

Oligonucleotides

Recent advances in synthesis of modified oligonucleotides, 109

Oscillatory phenomenon

Studies on the effect of halide ions as perturbing agents on a B-Z oscillating system with gallic acid as substrate, 137

Osmium

Naphthalene-1,8-diolato complexes of ruthenium and osmium. Synthesis and electron-transfer properties, 1

Oxalic acid

Kinetics and mechanism of the oxidation of oxalic and formic acids by hexamethylenetetramine-bromine, 294

Oxidation

Reactivities of some aldoses and aldosamines towards potassium bromate in hydrochloric acid medium, 152

Kinetics and mechanism of oxidation of aldehydes by *t*-butyl hypochlorite in aqueous acetic acid medium, 194

Kinetics and mechanism of chromium(III)-catalysed oxidation of ethane-1,2-diol and propane-1,2-diol by cerium(IV) in aqueous sulfuric acid media, 223

Linear free energy relationship and conformational effects on oxidation of aromatic acetals by pyridinium fluorochromate, 232

Kinetics and mechanism of oxidation of methionine by pyridinium hydrobromide perbromide, 291

Kinetics and mechanism of the oxidation of oxalic and formic acids by hexamethylenetetramine-bromine, 294

Peroxy acid oxidation : A kinetic and mechanistic study of oxidation of aminobenzoic acids by peroxomonosulfuric acid, 315

Role of chloride in the oxidative decarboxylation of amino acids by chloramine-T, 413

Oxovanadates

Synthesis of some new oxovanadates containing two hetero atoms, 164

Oxovanadium

Chemistry of alkoxo-bonded oxovanadium(V) complexes incorporating azophenol carboxylates and ethylene glycol, 59

Palladium

Transition metal complexes of heterocyclic ligands. Part-IV. Complexes of 6-aryl-3-cyano-4-trifluoro-

methylpyridine-2(1*H*)-thione with palladium- and platinum(II), 438

Molecules to materials : Platinum group metals organochalcogenolates to metal chalcogenides, 523

Partition coefficient

Relation between partition coefficient of a weak organic base and properties of solvents, 36

Penicillin

Solution behaviour of mixed ligand complexes of nickel(II) involving penicillin group drugs and sulfur containing ligands under physiological conditions, 373

Peroxomonosulfuric acid

Peroxy acid oxidation : A kinetic and mechanistic study of oxidation of aminobenzoic acids by peroxomonosulfuric acid, 315

Phenanthrene

Solid state conductance in fused ring aromatic compounds, 349

Phenanthrols

Catalytic aerobic oxidative coupling of some simple phenols and natural phenanthrols with CuCl(OH). TMEDA, 389

Phenols

Catalytic aerobic oxidative coupling of some simple phenols and natural phenanthrols with CuCl(OH). TMEDA, 389

Correlation potential of Wiener vis-a-vis Szeged indices : Anti-inflammatory activities of phenols, 433

Phenylalanine

Synthesis of some lanthanide complexes with phenylalanine, 259

Phenylnitrobenzohydroxamic acid

Relation between partition coefficient of a weak organic base and properties of solvents, 36

Phenyltrichloroacetamide

Infrared and Raman spectra of *N*-(substituted-phenyl)-2,2,2-trichloroacetamides, 279

Pheromone

Pheromone synthesis. Part-209. Synthesis of candidate structures for homosesquiterpene alcohols found as a putative sex pheromone from the sandfly *Lutzomyia lichyi*, 617

Photocatalysis

Use of titanium dioxide as photocatalyst for photodegradation of sodium lauryl sulfate, 157

Photolysis

Laser versus UV photolysis : A comparative study with carbazole, 97

Photo-oxidation

Effect of addition of calix[n]arenes on photooxygenation of 4,5-diphenylimidazolones, 98

Piper mullesua

Chemical constituents of *Piper mullesua*, 305

Platinum

Transition metal complexes of heterocyclic ligands. Part-IV. Complexes of 6-aryl-3-cyano-4-trifluoromethylpyridine-2(1*H*)-thione with palladium- and platinum (II), 438

Reactions of some platinum(II) complexes–hydrolysis, ring opening and substitution, 511

Molecules to materials : Platinum group metals organochalcogenolates to metal chalcogenides, 523

Polarography

Polarographic study of [Mn-L-aminoacidate-γ-picoline] mixed system vis-a-vis kinetics of electrode reaction, 88

Polyacrylamide

Polymerization of acrylamide initiated by $K_2S_2O_8$-EDTA-Ag^+ redox system, 386

Polyaminopolycarboxylates

Dissociation kinetics of acyclic and macrocyclic polyaminopolycarboxylate complexes of yttrium, 273

Polymers

Optically active terpolyner : Synthesis and characterization, 48

Curing exotherm and processing temperature of a family of epoxy resins in the light of fabrication of composites, 332

Polymerization of acrylamide initiated by $K_2S_2O_8$-EDTA-Ag^+ redox system, 386

Potassium bromate

A comparative study of the effect of precompression on the thermal stability of potassium bromate to ammonium perchlorate and potassium permanganate, 261

Potassium permanganate

A comparative study of the effect of precompression on the thermal stability of potassium bromate to ammonium perchlorate and potassium permanganate, 261

Potassium sulfate

Limiting apparent molar volumes and their temperature derivatives for ammonium sulfate, potassium sulfate and aluminium sulfate in aqueous dimethylformamide, 197

Praseodymium

Simultaneous determination of praseodymium, neodymium, holmium and erbium in rare earth mixtures with ofloxacin, 424

Propanediol

Kinetics and mechanism of chromium(III)-catalysed oxidation of ethane-1,2-diol and propane-1,2-diol by cerium(IV) in aqueous sulfuric acid media, 223

Propanol

Reaction of 2-propanol over alumina in the presence of methyl acetate. Evidence for the nature of adsorption, 355

Protein

Amperometric biosensor for dust estimation : Comparison of enzyme electrode and dual-step potential electrode, 70

G Protein

Activation mechanisms of G proteins by seven-transmembrane receptors : A view from rhodopsin studies, 665

Pyrazole

Synthesis of some potential antibacterial pyrazoles and pyrazolones, 42

Corrosion inhibition of mild steel by some pyrazole derivatives in aqueous HCl solutions, 473

Pyrazolinediones

Some heterocycles from dehydro-L-ascorbic acid and dehydro-D-isoascorbic acid, 168

Pyrazolones

Synthesis of some potential antibacterial pyrazoles and pyrazolones, 42

Pyrazolothiadiazoles

Synthesis and antimicrobial activities of some new pyrazolothiadiazoles and their azetidinones, 400

Pyridinedicarboxylic acid

Ligational behaviour of pyridine-2,3-dicarboxylic acid with nickel(II) in presence of imidazoles, 23

Pyridinethione

Direct electrochemical synthesis of organotin and lead compounds with pyridine-2-thione ligand, 254

Pyridinium dichromate

Facile cleavage of vicinal tertiary diols by pyridinium dichromate, 651

Pyridonal

Stability of the ternary copper(II) complexes involving tertiary diimines and a vitamin B_6 derivative, 397

Pyridoxalphenylthiosemicarbazone

Sensitive extractive spectrophotometric determination of iron(III) with pyridoxal-4-phenyl-3-thiosemicarbazone, 405

Pyrimethamine

Improved method for the determination of pyrimethamine in body fluids by enhancement of fluorescence, 161

Pyrimidines

Synthesis and biocidal activity of some new 2-amino-4,6-diaryl-substituted-pyrimidines, 329

QSAR

Topological studies on benzodiazepine receptor binding, 133

Hansch analysis of antitumor 4β-(arylamino)-4-desoxypodophyllotoxins and their 4′-demethyl analogs, 428

Correlation potential of Wiener vis-a-vis Szeged indices : Anti-inflammatory activities of phenols, 433

Quinazolinopyridazinoquinoxalines

Some reactions with quinoxaline-2,3-dicarboxylic acid anhydride. Synthesis of quinazolinoquinoxalines and quinazolino[2,3:6,1]pyridazino[4,5-*b*]quinoxalines, 494

Quinazolinoquinoxalines

Some reactions with quinoxaline-2,3-dicarboxylic acid anhydride. Synthesis of quinazolinoquinoxalines and quinazolino[2,3:6,1]pyridazino[4,5-*b*]quinoxalines, 494

Raman spectra

Infrared and Raman spectra of *N*-(substituted-phenyl)-2,2,2-trichloroacetamides, 279

Resonance fluorescence studies of spectroscopically pure SiO_2, 445

Review

Role of bridging ligand in tuning metal-metal interaction in mixed valence complexes, 51

Recent advances in synthesis of modified oligonucleotides, 109

Advances in the chemistry of Friedel-Crafts acylation, 175

Emerging trends in synthesis of drugs and fine chemicals, 459

Reactions of some platinum(II) complexes—hydrolysis, ring opening and substitution, 511

Metal bound azo anion radicals, 547

Total synthesis of sesquiterpenes and diterpenes involving aryl participated cyclisations, 553

Reactions of sulfur(IV) with complex ions of chromium-, manganese-, iron- and cobalt(III) in aqueous medium, 583

Structure and bonding in ternary and quaternary transition metal carbides and carbide silicides containing linear M=C=M units, 603

Studies on 1,3-dipolar cycloadditions, 637

Some aspects of the coordination chemistry of cobalt(III), 657

Rhodopsin

Activation mechanisms of G proteins by seven-transmembrane receptors : A view from rhodopsin studies, 665

Ruthenium

Naphthalene-1,8-diolato complexes of ruthenium and osmium. Synthesis and electron-transfer properties, 1

Kinetics and mechanism of binding of Δ and Λ coordination compounds with double helical DNA, 539

Metal bound azo anion radicals, 547

Ruthenium phenolates

Chemistry of some ruthenium phenolates. Synthesis, characterization and redox properties, 267

Safranine

Use of azine dye as photosensitizer in solar cell. NTA-safranine system, 347

Salicylfluorone

A study on the adsorptive catalytic voltammetry of titanium with salicylfluorone, 421

Salicylic acid

Studies on chloranil + benzoic acid complexes and chloranil + salicylic acid complexes in mixed solvents, 447

Schiff base

Complexes of nickel-, copper-, zinc-, cadmium- and mercury(II) with salicylaldehyde-4,4-dimethyl-3-thiosemicarbazone, 32

Coordination of cobalt(II), nickel(II) and copper(II) with Schiff base derived from 2-thiophene-carboxaldehyde and 2-monopropanolamine, 83

Studies on complexes of cobalt-, nickel-, copper-, zinc- and cadmium(II) with Schiff base derived from 3-aminodibenzofuran and salicylaldehyde, 207

Studies on the solution equilibria involved in some copper(II) and zinc(II) Schiff base complex systems, 220

Thermal, magnetic, ESR and antibacterial study of some Schiff base metal complexes, 256

Synthesis and characterization of metal complexes of manganese-, cobalt- and zinc(II) with Schiff base and some neutral ligand, 339

Non-isothermal degradation and kinetic parameters of some Schiff base complexes, 367

Screen-printed electrode

Amperometric biosensor for dust estimation : Comparison of enzyme electrode and dual-step potential electrode, 70

Self-assembly

Self-assembly of hydrogen-bonding networks of *N*-9-alkyladenine, 599

Sesquiterpenes

Total synthesis of sesquiterpenes and diterpenes involving aryl participated cyclisations, 553

Silicides

Structure and bonding in ternary and quaternary transition metal carbides and carbide silicides containing linear M=C=M units, 603

Silicon dioxide

Resonance fluorescence studies of spectroscopically pure SiO_2, 445

Silver colloid

Surfactant mediated nanoparticle aggregation and its application for SERS studies, 34

Silyl ethers

Trapping the tetrahedral intermediate in the 1,3-shift of an acetyl group using a triisopropylsilyl group, 593

Sodium cyanoborohydride

Tri-*n*-butylstannyl chloride-sodium cyanoborohydride mediated regioselective reductive demethoxylation of alkyl methyl ketals, 621

Sodium dodecyl sulfate

Effect of solvents and temperature on the critical micellar concentration of sodium dodecyl sulfate and cetylpyridinium chloride, 478

Sodium lauryl sulfate

Use of titanium dioxide as photocatalyst for photodegradation of sodium lauryl sulfate, 157

Soil

Studies on adsorption of carbaryl as influenced by soil organic matter (SOM) and other soil characteristics, 17

Effect of temperature on the sorption behavior of sulfate in some soils of West Bengal, 241

Effect of some organic compounds on the mobility of some trace metals through soil amended with fly ash, 326

Solar cell

Use of azine dye as photosensitizer in solar cell. NTA-safranine system, 347

Solid state reaction

On the error involved in the determination of activation energy of solid state reactions by using Coates-Redfern method, 341

Solvatochromic effect

A study of solvent dependence and proton transfer kinetics of 2,6-diphenylphenol, 376

Solvent effect

Solvent effect on protonation equilibria of L-ornithine and L-glutamic acid, 380

Sorption

Effect of temperature on the sorption behavior of sulfate in some soils of West Bengal, 241

Spirothiazolidinones

Synthesis of steroidal spirothiazolidinones, 215

Stability constant

Ligational behaviour of pyridine-2,3-dicarboxylic acid with nickel(II) in presence of imidazoles, 23

Multiple equilibria involved in some nickel(II) mixed ligand complex system containing catecholic and dipeptide ligands, 26

Chemical equilibrium studies on some bivalent metal chelates of cephalexin, 85

Polarographic study of [Mn-L-aminoacidate-γ-picoline] mixed system vis-a-vis kinetics of electrode reaction, 88

Multimetal multiligand complexes. Part-II. Equilibrium study on the formation and stability of mixed-metal, mixed-ligand complexes of cobalt-, nickel-, copper- and zinc(II) with aspartate and benzimidazole in aqueous solution, 209

Studies on the solution equilibria involved in some copper(II) and zinc(II) Schiff base complex systems, 220

Solution behaviour of mixed ligand complexes of mickel(II) involving penicillin group drugs and sulfur containing ligands under physiological conditions, 373

Ternary complexes of nickel(II) involving ampicillin and some potentially bi- and tridentate ligands, 394

Stability of the tenary copper(II) complexes involving tertiary diimines and a vitamin B_6 derivative, 397

pH-metric and electronic spectral measurements on the mixed ligand complexes of copper(II) containing unsubstituted imidazole and some dipeptides, 442

Steel

Effect of some inhibitors on the corrosion of mild steel in supply water, 166

Corrosion inhibition of mild steel by some pyrazole derivatives in aqueous HCl solutions, 473

Steroidal thiazoles

One-pot synthesis of substituted steroidal thiazoles, 102

Sulfur

Reactions of sulfur(IV) with complex ions of chromium-, manganese-, iron- and cobalt(III) in aqueous medium, 583

Sulfonamoylazopyrazole

Synthesis and biological activity of some sulphonamoylazopyrazoles, 44

Surface tension

Relative viscosity and surface tension of subsoil brines : A case study of Chandan subsoil brine, 297

Tellurium

Some new organotellurium(II) molecular adducts with monodentate ligands, 371

Terpene

Biomimetic synthesis of monoterpenoid indole akaloids from aglucones of secologanin derivatives : pH controlled product selectivity, 609

Terpolymer

Optically active terpolymer : Synthesis and characterization, 48

Thallium

Kinetics and mechanism of electron transfer reactions of aquo-thallium(III) perchlorate with aldopentoses, 235

Thermal analysis

Evaluation of thermal decomposition of liver tissues from both control and chromium-inoculated chick embryos by thermogravimetric analysis, 20

Thermogravimetry

A comparative study of the effect of precompression on the thermal stability of potassium bromate to ammonium perchlorate and potassium permanganate, 261

Thiazoles

One-pot synthesis of substituted steroidal thiazoles, 102

Thiazolidinones

Microwave assisted synthesis of 2,3-disubstituted-4-thiazolidinones and their pharmacological screening, 46

Synthesis of 5-arylidene-2-aryl-3-(2-chlorophenothiazinoacetamidyl)-1,3-thiazolidine-4-ones as antifungal and anticonvulsant agents, 104

Kinetics of formation of 4-thiazolidinones by cyclocondensation reaction of Schiff bases and thioglycolic acid, 352

Synthesis of some new thiazolidin-4-ones as possible antimicrobial agents, 492

Thiohydrazide

Thiohydrazide as complexing agents. Part-IV. Complexes of nickel-, copper-, zinc-, cadmium- and mercury(II) with phenyl and *p*-anisidyl thiohydrazides, 29

Thiophenealdehydethiosemicarbazone

Synthesis and biological activity of copper(II) mixed ligand complexes with thiophene-2-aldehyde thiosemicarbazone as the primary ligand, 252

Thiophenecarboxaldehyde

Coordination of cobalt(II), nickel(II) and copper(II) with Schiff base derived from 2-thiophene-carboxaldehyde and 2-monopropanolamine, 83

Thiosemicarbazone

Crystal structure of zinc(II) complex with thiosemicarbazone of acetone, 486

Thioureas

Kinetics of reaction of chloroacetone with thioureas, 213

Nucleation studies in supersaturated aqueous solutions of thiourea doped with urea and urea nitrate, 344

Tin

Direct electrochemical synthesis of organotin and lead compounds with pyridine-2-thione lignad, 254

TIPS protecting group

Trapping the tetrahedral intermediate in the 1,3-shift of an acetyl group using a triisopropylsilyl group, 593

Titania

Fixation of cesium on titania based ceramic precursor, 407

Titanium

Increased selectivity for planar chromatography by ion exchange : Cation chromatography on papers impregnated with titanium(IV) based inorganic ion exchangers in DMSO-HNO_3 mobile phases, 204

A study on the adsorptive catalytic voltammetry of titanium with salicylfluorone, 421

Titanium oxide

Use of titanium dioxide as photocatalyst for photodegradation of sodium lauryl sulfate, 157

Titanium tungstate

Complexation ion exchange electrochromatography of metal ions on papers impregnated with titanium(IV) tungstate, 307

Topological indices

Correlation potential of Wiener vis-a-vis Szeged indices : Anti-inflammatory activities of phenols, 433

On the Szeged Index of monocyclic graphs, 449

Transducin

Activation mechanisms of G proteins by seven-transmembrane receptors : A view from rhodopsin studies, 665

Transition metals

Thiohydrazide as complexing agents. Part-IV. Complexes of nickel-, copper-, zinc-, cadmium- and mercury(II) with phenyl and *p*-anisidyl thiohydrazides, 29

Complexes of nickel-, copper-, zinc-, cadmium- and mercury(II) with salicylaldehyde-4,4-dimethyl-3-thiosemicarbazone, 32

Chemical equilibrium studies on some bivalent metal chelates of cephalexin, 85

Studies on complexes of cobalt-, nickel-, copper-, zinc-

and cadmium(II) with Schiff base derived from 3-aminodibenzofuran and salicylaldehyde, 207

Multimetal multiligand complexes. Part-II. Equilibrium study on the formation and stability of mixed-metal, mixed-ligand complexes of cobalt-, nickel-, copper- and zinc(II) with aspartate and benzimidazole in aqueous solution, 209

Synthetic and structural studies of the transition metal complexes of manganese-, cobalt- and zinc(II) with *m*-nitrobenzaldehydethiosemicarbazone and some neutral ligands, 289

Synthesis of iron(III), cobalt(II), nickel(II), copper(II) and zinc(II) complexes with new quadridentate N,O^- donor ligands, 336

Synthesis, structural and electrical studies of cobalt-, nickel-, copper- and zinc(II) polymeric complexes, 363

Complexing behaviour of 4-vanillideneamino-3-methyl-5-mercapto-1,2,4-triazole towards Ag^{I}, Tl^{I}, Zn^{II}, Pb^{II}, Cd^{II}, Hg^{II}, Co^{II}, Ni^{II}, Pd^{II}, Rh^{III} and Ir^{III}, 440

Transition metal complexes of heterocyclic ligands. Part-II. Complex compounds of ions with d^6, d^7, d^8 and d^{10} electronic configuration with 3-*N*-dibenzofuryl-thiourea, 448

Structure and bonding in ternary and quaternary transition metal carbides and carbide silicides containing linear M=C=M units, 603

Triazolothiadiazoles

Synthesis and biological evaluation of 3-substituted-4-[2′-(4″-isobutylpheny)propionamido]-5-mercapto-1,2,4-triazoles and their derivatives, 302

Triazolothioacetic acids

Synthesis and biological evaluation of 3-substituted-4-[2′-(4″-isobutylpheny)propionamido]-5-mercapto-1,2,4-triazoles and their derivatives, 302

Tributyl stannyl chloride

Tri-*n*-butylstannyl chloride-sodium cyanoborohydride mediated regioselective reductive demethoxylation of alkyl methyl ketals, 621

Uranium

Dioxouranium complexes of 2,2′-dihydroxyazobenzene : Binding of mono- and bidentate Lewis bases, 270

Extraction chromatographic studies of uranium(VI) with high molecular mass amine (aliquat-336), 499

Urea

Nucleation studies in supersaturated aqueous solutions of thiourea doped with urea and urea nitrate, 344

Urea nitrate

Nucleation studies in supersaturated aqueous solutions of thiourea doped with urea and urea nitrate, 344

Vanadium

Spectrophotometric determination of vanadium(V) as its 6-chloro-3-hydroxy-2-[2′-(5′-methylfuryl)]-4*H*-chromen-4-one complex, 264

Vanillideneaminomethylmercaptothiazole

Complexing behaviour of 4-vanillideneamino-3-methyl-5-mercapto-1,2,4-triazole towards Ag^{I}, Tl^{I}, Zn^{II}, Pb^{II}, Cd^{II}, Hg^{II}, Co^{II}, Ni^{II}, Pd^{II}, Rh^{III} and Ir^{III}, 440

Viburnum grandifolium

Chemical constituents of *Viburnum grandifolium*, 497

Viscosity

Equivalent conductance, viscosity and apparent molar volume studies of alkali metal propionates in propionic acid + ethanol mixture at 30°, 8

Viscosity of electrolytes in non-aqueous solvents, 201

Densities and viscosities of binary mixtures of acetonitrile with alkanols (C_5, C_6, C_7, C_8, C_{10}) at 298.15, 303.15 and 308.15 K, 244

Relative viscosity and surface tension of subsoil brines : A case study of Chandan subsoil brine, 297

Densities, excess molar volumes, viscosities of binary mixtures of ethanediol with water at various temperatures, 319

Voltammetry

Simultaneous determination of copper and zinc by anodic stripping voltammetry in *Allamanda catharitica* L., 360

A study on the adsorptive catalytic voltammetry of titanium with salicylfluorone, 421

X-Ray crystal structure

Crystal structure of zinc(II) complex with thiosemicarbazone of acetone, 486

Yttrium

Dissociation kinetics of acyclic and macrocyclic polyaminopolycarboxylate complexes of yttrium, 273

Zinc

Studies on the solution equilibria involved in some copper(II) and zinc(II) Schiff base complex systems, 220

Synthesis and characterization of metal complexes of manganese-, cobalt- and zinc(II) with Schiff base and some neutral ligand, 339

Simultaneous determination of copper and zinc by anodic stripping voltammetry in *Allamanda catharitica* L., 360

Crystal structure of zinc(II) complex with thiosemicarbazone of acetone, 486

Zirconium arsenophosphate

Synthesis, characterisation and catalytic activity of $[Cu(NH_3)_4]^{2+}$ bound to zirconium arsenophosphate, 5

Author Index

Abu-Elenien, G. M., 473
Acharya, Ashok K., 164
Agnihotri, N., 264
Agrawal, Manisha A., 36
Agrawal, V. K., 449
Agrawal, Vijay K., 133
Ahamed, A. Jafar, 11
Aher, J. S., 197
Ahmad, Syed Mohmud, 497
Ali, Akhtar, 48
Ali, I., 17
Ameta, Suresh C., 157
Aneja, Meenakshi, 294
Anitha, K., 360
Ansari, Muhammad S., 39
Ansari, S. A., 215
Arbad, B. R., 352
Arzare, Sapana, 235
Aswar, A. S., 363
Babu, M. Saratchandra, 380
Bag, Gopal Chandra, 146
Bahad, P. J., 363
Bai, Chunli, 599
Bajaj, H. C., 51
Bajpai, A. K., 14, 238, 386
Bajpai, J., 386
Balasubramanian, N., 11
Banerjea, D., 567
Banerjee, Amalendu, 152
Banerjee, Pradyot, 511
Banerjee, R. S., 137
Banerji, Avijit, 637
Banerji, Kalyan K., 291, 294
Basu, Samarendra Nath, 152
Bayrakceken, Fuat, 445
Beezer, A. E., 34
Bhadauria, Jyoti, 42
Bhardwaj, R. K., 326
Bhat, A. R., 302
Bhat, D. Krishna, 279
Bhat, S. N., 478
Bhattacharjee, Nandini, 152
Bhattacharya, Manabesh, 341
Bhattacharya, Samaresh, 1, 267
Bhattacharya, Sharmila, 59
Bhave, N. S., 363
Bhuin, Goutam K., 223
Bhuniya, Sankar Prasad, 482
Bird, Clive W., 39
Biswas, Dipa, 74, 78
Biswas, Gayatri, 20
Blejoiu, S., 438, 488
Bokadia, M. M., 97
Brown, Richard T., 609
Bruce King, R., 603
Brujan, L., 488
Buch, R. A., 297
Căproiu, T., 207
Chakraborty, S., 389
Chakravorty, Animesh, 547
Chakrawarti, Mukta, 85, 217
Chakrawarti, Purushottam B., 85, 217
Chattopadhyay, P., 270
Chattopadhyaya, M. C., 358
Chaudhry, B. P., 166
Chawla, H. Mohindra, 98
Chetry, Swaroop, 478
Chopra, Haritma, 228
Choubey, A., 238
Choudhary, Ratan K., 29, 32
Chua-Anusorn, W., 563
Chudasama, Uma, 5
Chuenbo, Liu, 424
Creighton, J. A., 34
Darlin Quine, S., 413
Das, Amitava, 51
Das, Ansuman, 62
Das, Asim K., 223
Das, B., 241
Das, D. K., 241
Das, S. C., 66
Dash, A. C., 583
Dass, R., 264
David, S. Theodore, 220
Dawane, B. S., 299
Debnath, Nandadulal, 152
Deepak, M., 349
Dengre, R., 386
Deshpande, N. V., 449
Deva, R., 438
Devi, W. G., 341
Dhillon, Ranjit S., 453
Doshi, A. V., 322
Douglas, S. Paul, 81
Dutta, Keshab K., 499
Dutta, Swati, 1
Elba, M. E., 168
El-Maghraby, A. A., 473
El-Sekily, M. A., 168
Fadnis, Anand G., 235
Fang, Yunfeng, 635
Fleming, Ian, 593
Florea, S., 207
Fouad, F. S., 168
Ganatra, K. J., 322
Gangotri, K. M., 347
Gao, Hong-Wen, 192, 249
Gautam, Deepa, 371
Ghantwal, S. R., 100
Ghatuary, R. K., 107
Ghosal, Shibnath, 517
Ghosh, Prasanta, 547
Ghosh, Prasanta K., 109
Ghosh, Tapas, 59
Gowda, B. Thimme, 194, 279, 413
Gupta, Hari Shanker, 371
Gupta, Kailash C., 109
Gupta, M., 307
Gupta, M. M., 305
Gupta, R., 307
Gupta, Rachna, 204
Gupta, S., 91
Gupta, Seema, 91, 94
Gupta, Upma, 5
Guru, Niharika, 400
Haldar, Priyanath, 201
Harjit, Jeena, 36
Hasan, Mehdi, 244
Hossienzadeh, Alireza, 285
Hu, Rui-Xiang, 486
Hundiwale, D. G., 319
Hussain, Muhammad T., 39
Ilyas, Mohammad, 497
Indrasenan, P., 259
Ingle, D. B., 213
Ishihara, Jun, 651
Jabin, Shagufta, 326
Jain, J. R., 355
Jain, Rajeev, 42, 44, 91, 94
Jain, Shubha, 97
Jain, V. K., 523
Jamaluddin, M., 102
Jana, N. R., 34
Jaya Kumari, P., 358

Jayasree, V., 478
Jha, G. S., 166
Ji, Liang-Nian, 539
Jomehri, Behzad B., 445
Joshi, Krishna C., 627
Joshi, Rahul, 627
Joshi, Shobha, 433
Jyothi, N. V. V., 360
Kala Raj, N. K., 259
Kalam, Abul, 371
Kale, P. P., 449
Kannan, M. P., 261
Kapadi, U. R., 319
Kar, Dalia, 223
Karmarkar, S., 449
Karmarkar, Sneha, 433
Katritzky, Alan R., 635
Kaur, Avinder Pal, 453
Kaur, Gurpreet, 453
Keshari, B. N., 29
Khadikar, P. V., 133, 449
Khadikar, Padmakar, 433
Khairnar, R. S., 197
Khan, E. H., 102, 215
Khan, Farid, 88
Khan, Jamal A., 326
Khan, Samiullah, 326
Khare, Mahima, 256, 367
Khatri, Dilip, 300
Kidwai, M., 46
Kishore, D., 254
Kothari, S., 329
Krishna Kumar, P. S., 413
Kriza, A., 207, 488
Kriza, Angela, 83
Kulkarni, Neelima D., 397
Kumar, A., 459
Kumar, C. J., 405
Kumar, Devendra, 492
Kumar, Pradeep, 109
Kumar, Subodh, 254
Kumar, Sushil, 305
Lahiri, C. R., 74, 78
Lahiri, S. C., 447
Lande, M. K., 319
Lawande, S. P., 352
Liang, Hong, 486
Liu, Bin, 486
Liu, Jin-Gang, 539
Macey, D. J., 563
Mahadevan, C., 344
Mahato, S. B., 175
Maini, Pramila, 85, 217
Maiti, Sukumar, 482
Majumdar, Kamalkrishna, 447
Majumder, P. L., 389
Maki, Shojiro, 651
Malhotra, H. C., 228
Manchanda, V. K., 273
Mandal, Ajay K., 593
Mandal, Asit Baran, 20
Mandal, Kamal K., 201
Mane, R. A., 213
Mane, S. G., 455
Marinho, Fabiano A., 311
Mathur, G. N., 332
Mehta, J. R., 264
Mehta, R. K., 254
Mishra, A. P., 256, 367
Mishra, L. K., 29, 32
Misra, P., 46
Misra, T. K., 270
Mohite, B. S., 455
Mondal, Sudhin K., 223
Moodithaya, B. S., 194
Mori, Kenji, 617
Mukherjee, Debabrata, 553
Mukherjee, G. N., 62, 209
Mukherjee, G. S., 332
Mukhopadhyay, Alok Kumar, 107
Muthusubramanian, S., 252
Nag, J. K., 270
Nair, M. Sivasankaran, 23, 26, 220, 373, 394, 442
Naixing, Wang, 424
Najafpour, Ghasen D., 285
Nakanishi, Koji, 651
Nambi, K., 232
Nanda, R. K., 657
Narayana, B., 440
Nayaki, S. Kothai, 376
Neelakantan, M. A., 23, 373, 394
Negi, N., 46
Nikam, P. S., 197
Nikam, Pandharinath S., 244
Nishimura, Shoko, 665
Odoemelam, Stevens A., 161
Padmaja, P., 42, 44, 91, 94
Pal, A., 34
Pal, Dipak Kumar, 428
Pal, S. C., 137
Pal, T., 34
Palan, H. B., 14
Panda, R. S., 315
Pande, Rama, 36
Parihari, R. K., 289, 339
Patel, R. K., 289, 339
Patel, R. N., 289, 339
Pathak, Manisha, 98
Pathak, P. N., 273
Pathak, R. N., 32
Patil, N. B., 319
Patil, P. R., 319
Perveen, Mehtab, 497
Pillai, R. B. C., 490
Pleniceanu, Maria, 83
Pradhan, Subas Ch., 315
Prakash, Indra, 635
Pramanik, Animesh, 402
Pramanik, Kausikisankar, 547
Pramanik, Nimai Chand, 1
Pramod, G., 261
Prasad, D., 166
Prasad, P. Nagendra, 8
Prasad, Shiva, 311
Punjabi, Pinki B., 157
Puspha Latha, S., 344
Qiu, Xiaohui, 599
Quanjie, Men, 424
Rahman, I. H. A., 563
Rajora, Sonal, 300
Rama, Nasim H., 39
Ramachandra, B., 440
Ramakrishnan, P. S., 232
Ramana, Karri V., 380
Ramesh, G. N., 405
Rao, G. Nageswara, 380
Rao, K. Chowdoji, 8
Rao, M. S. Prasada, 380
Rao, P. Nageswara, 81
Rao, Pratibha, 157
Rao, T. V. D. Prasad, 410
Rathore, H. S., 17
Rattan, Shalu, 228
Ray, Monojit, 511
Reddy, A. Dharma, 336
Reddy, A. V., 405
Reddy, S. Jayarama, 360
Regar, Om Prakash, 347
Reiss, A., 207, 438, 488

Roy, Aparna, 223
Roy, B. N., 459
Roy, Kunal, 428
Roy, Salil K., 164
Roy, Uday S., 499
Roy Hek, Susan, 478
Roychowdhury, M., 389
Rudorf, W. D., 438
Sachdeva, Roma, 14
Saeed, Aamer, 39
Sahu, H. K., 209
Samant, S. D., 100
Samanta, D., 241
Sankaran, R., 459
Sanyal, S., 166
Sarkar, C. K., 107
Sarkar, M., 241
Sarkar, Priyabrata, 70
Sarma, L. S., 405
Sastry, K. S., 410
Sawant, A. B., 197
Sawant, S. M., 455
Sengupta, Chandana, 428
Sengupta, Kalyan Kali, 152
Setty, S. Ramachandra, 302
Shafi, Sheeba, 215
Shafiullah, 102, 215
Shahi, K., 349
Shamsuzzaman, 102
Sharan, A., 349
Sharma, Pradeep K., 291, 294
Sharma, R. C., 492
Sharma, S. D., 204, 307
Sharma, Vimukta, 433
Sharma, Vinita, 291
Shen, Dazhong, 421
Shichida, Yoshinori, 665
Shirsat, Laxman N., 244
Shivakumar, Maya, 547
Shivanekar, Anjali, 5
Shrivastava, M. K., 94
Shrivastava, Mahendra K., 44
Shrivastava, O. P., 407
Shrivastava, Rashmi, 407
Shukla, Atindra D., 51
Shukla, (Mrs.) Prerna, 48
Siddiqui, I. H., 102, 215
Sigel, Astrid, 501
Sigel, Helmut, 501
Silva, Leonardo B., 311
Singh, A. K. Manihar, 341
Singh, K. K., 17
Singh, N. Mohondas, 146
Singh, N. Rajmuhon, 146
Singh, R. K., 332
Singh, Vaishali, 228
Singhal, Bhawana, 157
Singhal, M., 329
Sinha, C., 270
Sinha, Pradip K., 164
Sinha, Prasanta Kumar, 267
Sirisha, K., 360
Sivakolunthu, S., 252
Sivasubramanian, S., 252
Soni, Sunil K., 133
Spinu, Cezar, 83
Sri Hari, S., 81
Srikrishna, A., 621
Srinivasan, K. V., 349
Srinivasan, P., 349
Srivastava, A. K., 48, 133
Srivastava, S., 305
Srivastava, S. D., 104, 400
Srivastava, S. K., 104
Srivastava, S. L., 104
Srivastava, Shekhar, 371
Stanica, N., 488
Subalakshmi, G., 26, 442
Subha, M. C. S., 8
Sur, Kumar Ranabir, 59
Surendra Babu, N., 8
Suresh, G. V., 302
Susarla, V. R. K. S., 297
Swaminathan, M., 376
Swamy, S. J., 336
Tahira Banu, 300
Talesara, G. L., 300
Tanaka, Haruhiko, 531
Tao, Mei, 192
Tashiro, Takuya, 617
Tomar, Sandeep, 42, 44
Udupi, R. H., 302
Umayorubhagan, V., 344
Upadhyay, Amitbodh, 97
Valli, G., 252
Varshney, K. G., 5
Veerabhadram, G., 410
Verma, B. L., 329
Verma, R. K., 305
Vibhute, Y. B., 299
Vijayvergia, D., 329
Viswajanani, R., 621
Vyas, R., 329
Wang, Chen, 599
Wang, Lizeng, 421
Webb, J., 563
Wei, Jiang, 424
Wu, Peng, 599
Xu, Shandong, 599
Xuezhen, Ren, 424
Yaman, Ali, 445
Yu, Kai-Bei, 486
Zahran, Medhat A., 494
Zaidi, Ahasan, 88
Zaware, B. H., 213
Zeng, Qingdao, 599
Zhang, Bin, 599
Zhang, Peng-Fei, 249
Zhang, Sheng-Yi, 192
Zhang, Xiaoli, 421
Zhikun, Si, 424